

Power/Ground Ring Substrate for Integrated Circuits

ABSTRACT

A substrate (110) for an unpackaged integrated circuit (IC) chip (118). The substrate comprises an insulative material (112), a plurality of contacts (114) disposed thereon, and a conductive ring (150) disposed around the outer perimeter of the contacts (114). Conductive traces (115) may be disposed around one or more contacts (114) and may be coupled to the conductive ring (150). An electro-less plating technique is utilized to plate contacts (114), avoiding unnecessary conductive material such as plating stubs being included in the contact (114) pattern, reducing interference. The conductive ring (150) shields the chip (118) from interference.